

BF1 Fuses Rated 58V

This BF1 fuse is rated at 58V and offers a bolt-on fuse for high current wiring protection. Current rating 30A - 200A; with transparent housing material for easy detection of blown fuses.

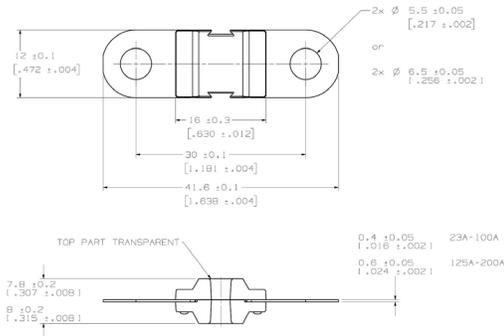
Specifications

| | |
|-------------------------|--|
| Operating temperature: | -40 to 125 degrees C |
| Housing Material: | PET-GF30 |
| Clear Housing Material: | PES |
| Terminals: | Copper alloy, gal. Sn |
| | 2 x M5 or M6 bolts, distance 30 mm |
| Mounting Torque M5: | 4.5 Nm +/- 1Nm |
| Mounting Torque M6: | 6.0 Nm +/- 1Nm |
| Interrupting Rating: | 1000A @ 58 VDC |
| Complies with: | ISO 8820-5, UL 248 Special Purpose Fuses |



Dimensions

Dimensions in mm



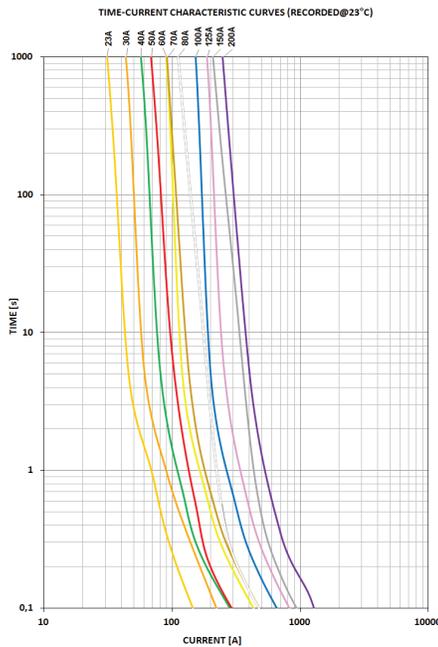
Ordering Information

| Part Number | Package Size | Bolt Size | Bolt Hole Qty |
|---------------|--------------|-----------|---------------|
| 142.5631.xxx2 | 500 | M5 | 2 |
| 142.7010.xxx2 | 500 | M6 | 1 |
| 142.7020.xxx2 | 500 | N/A | 0 |

Time-Current Characteristics

| % of Rating | Opening Time Min / Max (s) | |
|-------------|----------------------------|-------------------------------|
| | 30-150A Fuses | 200A Short Circuit Protectors |
| 75 | - / - | 360,000 s / - |
| 100 | 360,000 s / - | - / - |
| 110 | 14,400 s / - | - / - |
| 150 | 90 s / 3,600 s | - / - |
| 200 | 3 s / 100 s | 1 s / 15 s |
| 300 | 0.300 s / 3 s | - / - |
| 350 | - / - | 0.300 s / 5 s |
| 500 | 0.100 s / 1 s | - / - |
| 600 | - / - | 0.100 s / 1 s |

Pre-Arcing Time-Limits



30 A - 150 A: FI = 1.25
 (max. operating current: 0.8 x I_{rat} at 23°C)
 200 A: FI = 2.00
 (max. operating current: 0.5 x I_{rat} at 23°C)

Ratings

| Part Number M5 | Part Number M6 | Current Rating (A) | Housing Material Color | Typ. Voltage Drop (mV) | Cold Resistance (mΩ) | I ² t (A ² s) |
|----------------------------|----------------------------|--------------------|---|------------------------|----------------------|-------------------------------------|
| 142.5631.5302 ¹ | 142.70xx.5302 ¹ | 30 |  | 105 | 2.70 | 5,100 |
| 142.5631.5402 | 142.70xx.5402 | 40 |  | 90 | 1.56 | 6,800 |
| 142.5631.5502 | 142.70xx.5502 | 50 |  | 80 | 1.03 | 6,900 |
| 142.5631.5602 | 142.70xx.5602 | 60 |  | 75 | 0.75 | 16,200 |
| 142.5631.5702 | 142.70xx.5702 | 70 |  | 70 | 0.64 | 22,000 |
| 142.5631.5802 | 142.70xx.5802 | 80 |  | 70 | 0.55 | 25,600 |
| 142.5631.6102 | 142.70xx.6102 | 100 |  | 70 | 0.44 | 42,500 |
| 142.5631.6122 | 142.70xx.6122 | 125 |  | 70 | 0.34 | 62,500 |
| 142.5631.6152 | 142.70xx.6152 | 150 |  | 70 | 0.29 | 83,400 |
| 142.5631.6202 ² | 142.70xx.6202 | 200 |  | 70 | 0.24 | 126,000 |

Note 1: Not UL rated Note 2: Short Circuit Protector only

Derating

Individual derating curves by rating can be ordered through your Littelfuse contact person.

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